

Veen
4/17/02

EFFICACY REVIEW

DATE: IN 4- 9-02 OUT 4-11-02

FILE OR REG. NO. 2724-478

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED March 27, 2002

DATE OF SUBMISSION March 27, 2002

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): (I,)D, H, F, N, R, S _____

DATA ACCESSION NO(S) . 456406-01 & -02;D282263;S613831;Case#011123;
AC:300

PRODUCT MGR. NO. 03-Layne/Sproat

PRODUCT NAME(S) Mavrik Aquaflow® Insecticide/Miticide

COMPANY NAME Wellmark International

SUBMISSION PURPOSE Provide performance data in support of claims
for control of red imported fire ant, yellow-
fever mosquito, Argentine & odorous house ants.

CHEMICAL & FORMULATION Tau-fluvalinate 22.3%
(2.0 lbs. active per gallon flowable liquid)

CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession
(MRID) Number 456406-01, having been obtained from standard field
testing meeting the requirements of § 95-3(c)(1) and (2)(i) on p.
245 and the standard of § 95-3(c)(3)(i) on p. 245 of the Product
Performance Guidelines, are adequate to demonstrate the ability of
the subject product to control red imported fire ant, *Solenopsis*
invicta, by mound application when diluted and applied according to
label directions. A drench with active ingredient concentration of
0.017%, when applied at a rate of 1 gallon of solution per mound
gave complete control of all 30 fire ant colonies overnight when
examined by attempting to provoke a defense response by lightly
stirring the treated mounds on the day following treatment. While
observations were not extended to 30 days as stated in § 95-3(c)(3)
subpart (i), first sentence, the fact that no activity was noted
even after excavation of mounds showing no defense response with
light probing and that such observations revealed a substantial
number of dead workers, alates, and brood on the mound surface,
and no live fire ants could be observed in the mounds, actually
exceeds the requirements of this standard and fully satisfies the
conditions necessary to qualify as an effective (to be continued)

killer of fire ants, and establish the claim stated on pp. 7 and 8, 14 and 15 of the label.

Data presented in MRID No. 456406-02, having been obtained from standard laboratory testing meeting the requirements of § 95-11(b)(1)-(4) and (6) and (7) on p. 268 and the standard of § 95-11 subpart (c)(2)(ii)(A)(a) on p. 270 of the Guidelines, are adequate to demonstrate the ability of the subject product to control the yellow-fever mosquito, *Aedes aegypti*, of mixed sexes, when diluted and applied according to label directions. A solution with active ingredient concentration of 0.017%, when applied at the label rate of 5 gallons of solution per 1,000 sq.ft. provided 100% reduction in treated populations at 24 hours post-treatment. In another test with workers of odorous house ant, *Tapinoma sessile*, the same rate provided 100% reduction in the treated populations after 24 hours. Finally, in a third test with workers of Argentine ant, *Linepithema humile*, the same rate provided 100% reduction 24 hours post-treatment. As stated by the registrant, these results are usable for the support of adding claims for these 3 pests to the label.

RL Vern L. McFarland, IB